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TITLE: CLOTH USED FOR MANUFACTURE OF MAGNETIC  
RECORDING MEDIUM

PUBN-DATE: April 27, 1999

INVENTOR- INFORMATION:

NAME	COUNTRY
TAKASE, KIYOSHI	N/A
YOSHII, KUNIYUKI	N/A
SUZUKI, TOSHIYUKI	N/A

ASSIGNEE- INFORMATION:

NAME	COUNTRY
KANEBO LTD	N/A
KANEBO SYNTHETIC FIBERS LTD	N/A

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ABSTRACT:

PROBLEM TO BE SOLVED: To suppress the generation of a crash by specifying  
rupture strength and tensile elongation, using multifilament for  
warp, and  
filaments different in thermal shrinkage percentage for both or one  
of warp and  
weft, and forming at least one of the filaments of multifilament of  
specific  
denier formed by splitting composite fiber.

SOLUTION: Cloth for wiping or polishing the substrate surface of a  
magnetic  
recording medium or the like is formed of satin, and longitudinal  
rupture  
strength by a JISL1096 A method is 20 kgf/50 mm or more, and tensile  
elongation

is 5%/5 kgf/50 mm or less. Multifilament is used for warp, and filaments different in hot water shrinkage percentage are used for both or one of warp and weft. At least one of the filaments is combined filament yarn of multifilament of 0.5 denier or less in single yarn size formed by splitting composite fiber, and a large number of loops with single yarn of fine size covering the outside are formed on the surface of the cloth. Longitudinal elongation of the cloth receiving drawing action at the time of wiping or polishing is therefore reduced so as to maintain abrasive grain holding force to a free grinding wheel and cushioning performance at the time of pressing abrasive grains.

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TITLE: Cross used for polishing substrate of magnetic recording  
medium - has many loops of fine sized yarns on its exterior surface and multifilament forms filling of cross

PATENT-ASSIGNEE: KANEBO GOSEN KK[KANB] , KANEBO LTD[KANE]

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BASIC-ABSTRACT:

NOVELTY - The cross (4,5) are formed with satin weave and multifilament is used as filling. The tensile strength of satin weave ranges from 5-20 kgf divided by 50mm. The warp and weft threads of multifilament is made from two different polymers with different heat shrinking rates. The single yarn size

is 0.5 deniers or less and many loops of fine sized yarn covers exterior surface of cross. INDUSTRIAL STANDARDS - The tensile strength of satin weave ranges from 5-10 kgf divided by 50mm based on the specification indicated in JISL1096.

USE - Satin made cross is used for texture and varnish processing and for polishing substrates of magnetic recording medium.

ADVANTAGE - Enables smooth polishing of substrate, imparts required roughness to surface of substrate without damage and reduces the crash formed on surface by using satin weave made cross. DESCRIPTION OF DRAWING(S) - The figure shows polishing condition of substrate using cross. (4,5) Cross.

CHOSEN-DRAWING: Dwg.1/4

TITLE-TERMS: CROSS POLISH SUBSTRATE MAGNETIC RECORD MEDIUM LOOP FINE SIZE YARN  
EXTERIOR SURFACE MULTIFILAMENT FORM FILL CROSS

DERWENT-CLASS: P61 T03

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